

Sequence Listing 05986-100M536-US1.txt
SEQUENCE LISTING

<110> wisniewski, Thomas
Sigurdsson, Einar
Goni, Fernando

<120> MUCOSAL IMMUNIZATION TO PREVENT PRION INFECTION

<130> 05986/100M536-US1

<150> PCT/US04/16242
<151> 2004-05-20

<150> 60/472,262
<151> 2003-05-20

<160> 32

<170> PatentIn version 3.3

<210> 1
<211> 253
<212> PRT
<213> Homo sapiens

<400> 1

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly
50 55 60

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Pro His Gly Gly
65 70 75 80

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Gly Gly Thr His
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
100 105 110

Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp
130 135 140

Sequence Listing 05986-100M536-US1.txt

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250

<210> 2
<211> 264
<212> PRT
<213> Bovine

<400> 2

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys
100 105 110

Sequence Listing 05986-100M536-US1.txt

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala
115 120 125

Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala
130 135 140

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr
145 150 155 160

Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn
180 185 190

Ile Thr Val Lys Glu His Thr Val Thr Thr Thr Lys Gly Glu Asn
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met
210 215 220

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly
225 230 235 240

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser
245 250 255

Phe Leu Ile Phe Leu Ile Val Gly
260

<210> 3
<211> 256
<212> PRT
<213> Deer

<400> 3

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Sequence Listing 05986-100M536-US1.txt

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
130 135 140

Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
165 170 175

Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250 255

<210> 4
<211> 256
<212> PRT
<213> Elk

<400> 4

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Sequence Listing 05986-100M536-US1.txt

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
130 135 140

Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
165 170 175

Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250 255

<210> 5

<211> 256

<212> PRT

<213> Odocoileus hemionus

<400> 5

Sequence Listing 05986-100M536-US1.txt

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Asn Arg Pro Leu Ile His Phe
130 135 140

Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn
165 170 175

Thr Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250 255

Sequence Listing 05986-100M536-US1.txt

<210> 6
<211> 254
<212> PRT
<213> Mus musculus

<400> 6

Met Ala Asn Leu Gly Tyr Trp Leu Leu Ala Leu Phe Val Thr Met Trp
1 5 10 15

Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Thr Trp Gly Gln Pro His Gly Gly Trp
50 55 60

Gly Gln Pro His Gly Gly Ser Trp Gly Gln Pro Pro Gly Gly Ser Trp
65 70 75 80

Gly Gln Pro His Gly Gly Trp Gly Gln Gly Gly Thr His Asn
85 90 95

Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Leu Lys His Val Ala
100 105 110

Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met
115 120 125

Leu Gly Ser Ala Met Ser Arg Pro Met Ile His Phe Gly Asn Asp Trp
130 135 140

Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val
145 150 155 160

Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His
165 170 175

Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
180 185 190

Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg Val
195 200 205

Val Glu Gln Met Cys Val Thr Gln Tyr Gln Lys Glu Ser Asp Ala Tyr
210 215 220

Sequence Listing 05986-100M536-US1.txt

Tyr Asp Gly Arg Arg Ser Ser Ser Thr Val Leu Phe Ser Ser Pro Pro
225 230 235 240

Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250

<210> 7

<211> 225

<212> PRT

<213> Rattus norvegicus

<400> 7

Gly Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro
1 5 10 15

Gly Gly Asn Arg Tyr Pro Pro Gln Ser Gly Gly Thr Trp Gly Gln Pro
20 25 30

His Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro
35 40 45

His Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Ser Gln Gly
50 55 60

Gly Gly Thr His Asn Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn
65 70 75 80

Leu Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly
85 90 95

Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Met Leu His
100 105 110

Phe Gly Asn Asp Trp Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg
115 120 125

Tyr Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln
130 135 140

Asn Asn Phe Val His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr
145 150 155 160

Val Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys
165 170 175

Met Met Glu Arg Val Val Glu Gln Met Cys Val Thr Gln Tyr Gln Lys
180 185 190

Sequence Listing 05986-100M536-US1.txt

Glu Ser Gln Ala Tyr Tyr Asp Gly Arg Arg Ser Ser Ala Val Leu Phe
195 200 205

Ser Ser Pro Pro Val Ile Leu Leu Ile Ser Leu Ile Phe Leu Ile Val
210 215 220

Gly
225

<210> 8
<211> 256
<212> PRT
<213> Sheep

<400> 8

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Ser His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
130 135 140

Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Arg Tyr Ser Asn Gln Asn
165 170 175

Sequence Listing 05986-100M536-US1.txt

Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250 255

<210> 9
<211> 256
<212> PRT
<213> Goat

<400> 9

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Ser His Ser Asp Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
130 135 140

Sequence Listing 05986-100M536-US1.txt

Gly His Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser His Gln Asn
165 170 175

Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Ser Gln Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Pro
225 230 235 240

Pro Pro Val Ile Leu Ile Ser Leu Leu Ile Leu Leu Ile Val Gly
245 250 255

<210> 10

<211> 254

<212> PRT

<213> Syrian hamster

<400> 10

Met Ala Asn Leu Ser Tyr Trp Leu Leu Ala Leu Phe Val Ala Met Trp
1 5 10 15

Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Thr Trp Gly Gln Pro His Gly Gly
50 55 60

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Pro His Gly Gly
65 70 75 80

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Gly Gly Thr His
85 90 95

Asn Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
100 105 110

Sequence Listing 05986-100M536-US1.txt

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Met Met His Phe Gly Asn Asp
130 135 140

Trp Glu Asp Arg Tyr Tyr Arg Glu Asn Met Asn Arg Tyr Pro Asn Gln
145 150 155 160

Val Tyr Tyr Arg Pro Val Asp Gln Tyr Asn Asn Gln Asn Asn Phe Val
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Tyr
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Ile Met Glu Arg
195 200 205

Val Val Glu Gln Met Cys Thr Thr Gln Tyr Gln Lys Glu Ser Gln Ala
210 215 220

Tyr Tyr Asp Gly Arg Arg Ser Ser Ala Val Leu Phe Ser Ser Pro Pro
225 230 235 240

Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Met Val Gly
245 250

<210> 11
<211> 258
<212> PRT
<213> Mink

<400> 11

Met Val Lys Ser His Ile Gly Ser Trp Leu Leu Val Leu Phe Val Ala
1 5 10 15

Thr Trp Ser Asp Ile Gly Phe Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Sequence Listing 05986-100M536-US1.txt

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Gly Ser His Gly Gln Trp Gly Lys Pro Ser Lys Pro Lys Thr Asn
100 105 110

Met Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly
115 120 125

Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His
130 135 140

Phe Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg
145 150 155 160

Tyr Pro Asn Gln Val Tyr Tyr Lys Pro Val Asp Gln Tyr Ser Asn Gln
165 170 175

Asn Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr
180 185 190

Val Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Met Lys
195 200 205

Ile Met Glu Arg Val Val Glu Gln Met Cys Val Thr Gln Tyr Gln Arg
210 215 220

Glu Ser Glu Ala Ala Tyr Tyr Gln Arg Gly Ala Ser Ala Ile Leu Phe
225 230 235 240

Ser Pro Pro Pro Val Ile Leu Leu Ile Ser Leu Leu Ile Leu Leu Ile
245 250 255

Val Gly

<210> 12
<211> 253
<212> PRT
<213> Gorilla

<400> 12

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Sequence Listing 05986-100M536-US1.txt

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
50 55 60

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
65 70 75 80

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250

<210> 13
<211> 254
<212> PRT
<213> Chimpanzee

<400> 13

Sequence Listing 05986-100M536-US1.txt

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
50 55 60

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly
65 70 75 80

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Gln Tyr Ser Ser Gln Asn Asn Phe Val
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Leu Ile Val Gly
245 250

Sequence Listing 05986-100M536-US1.txt

<210> 14
<211> 263
<212> PRT
<213> Greater Kudu

<400> 14

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Ser Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys
100 105 110

Pro Ser Lys Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Ala
115 120 125

Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala Met
130 135 140

Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr
145 150 155 160

Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro Val
165 170 175

Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Val Asn Asn Ile
180 185 190

Thr Val Lys Gln His Thr Val Thr Thr Thr Lys Gly Glu Asn Phe
195 200 205

Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met Cys
210 215 220

Sequence Listing 05986-100M536-US1.txt

Ile Thr Gln Tyr Gln Arg Glu Ser Glu Ala Tyr Tyr Gln Arg Gly Ala
225 230 235 240

Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser Phe
245 250 255

Leu Ile Phe Leu Ile Val Gly
260

<210> 15
<211> 255
<212> PRT
<213> Camel

<400> 15

Met Val Lys Ser His Met Gly Ser Trp Ile Leu Val Leu Phe Val Val
1 5 10 15

Thr Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Tyr Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly
85 90 95

Gly Ala His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Ser Met
100 105 110

Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly Leu
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe
130 135 140

Gly Asn Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr
145 150 155 160

Pro Asn Gln Val Tyr Tyr Lys Pro Val Asp Gln Tyr Ser Asn Gln Asn
165 170 175

Sequence Listing 05986-100M536-US1.txt

Ser Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu
210 215 220

Tyr Gln Ala Ser Tyr Gly Arg Gly Ala Ser Val Ile Phe Ser Ser Pro
225 230 235 240

Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250 255

<210> 16
<211> 257
<212> PRT
<213> Pig

<400> 16

Met Val Lys Ser His Ile Gly Gly Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Ala Trp Ser Asp Ile Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
85 90 95

Gly Gly Ser His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn
100 105 110

Met Lys His Val Ala Gly Ala Ala Ala Gly Ala Val Val Gly Gly
115 120 125

Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His
130 135 140

Sequence Listing 05986-100M536-US1.txt

Phe Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg
145 150 155 160

Tyr Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln
165 170 175

Asn Ser Phe Val His Asp Cys Val Asn Ile Thr Val Lys Glu His Thr
180 185 190

Val Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys
195 200 205

Met Ile Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Lys
210 215 220

Glu Tyr Glu Ala Tyr Ala Gln Arg Gly Ala Ser Val Ile Leu Phe Ser
225 230 235 240

Ser Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Leu Phe Leu Ile Val
245 250 255

Gly

<210> 17

<211> 253

<212> PRT

<213> Artificial

<220>

<223> homolog of full-length human prion

<220>

<221> MISC_FEATURE

<222> (1)..(253)

<223> Xaa is is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly or Ser

<400> 17

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly

50

Sequence Listing 05986-100M536-US1.txt

55

60

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Pro His Gly Gly Gly
65 70 75 80

Trp Gly Gln Pro His Gly Gly Trp Gly Gln Gly Gly Gly Thr His
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Xaa Gly Gly Leu Gly Gly
115 120 125

Xaa Xaa Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
245 250

<210> 18

<211> 264

<212> PRT

<213> Artificial

<220>

<223> homolog of bovine full-length prion

<220>

<221> MISC_FEATURE

<222> (1)..(264)

Sequence Listing 05986-100M536-US1.txt

<223> xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<400> 18

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Trp Gly Gln Pro His
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys
100 105 110

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala
115 120 125

Ala Gly Ala xaa xaa Gly Gly Leu Gly Gly xaa xaa xaa Gly Ser Ala
130 135 140

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr
145 150 155 160

Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn
180 185 190

Ile Thr Val Lys Glu His Thr Val Thr Thr Thr Lys Gly Glu Asn
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met
210 215 220

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly
225 230 235 240

Sequence Listing 05986-100M536-US1.txt

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser
245 250 255

Phe Leu Ile Phe Leu Ile Val Gly
260

<210> 19
<211> 65
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>
<221> MISC_FEATURE
<222> (42)..(51)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<400> 19

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Gly Gly Gly Thr
1 5 10 15

His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His
20 25 30

Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly
35 40 45

Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser
50 55 60

Asp
65

<210> 20
<211> 120
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

Sequence Listing 05986-100M536-US1.txt

<220>
<221> MISC_FEATURE
<222> (42)..(106)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser
<400> 20

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Gly Gly Gly Thr
1 5 10 15

His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His
20 25 30

Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly
35 40 45

Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser
50 55 60

Asp Gly Gln Gly Gly Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys
65 70 75 80

Pro Lys Thr Asn Met Lys His Met Ala Gly Ala Ala Ala Gly Ala
85 90 95

Xaa Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa Gly Ser Ala Met Ser Arg
100 105 110

Pro Ile Ile His Phe Gly Ser Asp
115 120

<210> 21
<211> 65
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

<220>
<221> MISC_FEATURE
<222> (32)..(41)
<223> Xaa is Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (56)..(65)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 21

Gly Gln Gly Gly Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro
1 5 10 15

Sequence Listing 05986-100M536-US1.txt

Lys Thr Asn Met Lys His Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa
20 25 30

Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro
35 40 45

Ile Ile His Phe Gly Ser Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa
65

<210> 22
<211> 120
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

<220>
<221> MISC_FEATURE
<222> (32)..(96)
<223> Xaa is Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (111)..(120)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 22

Gly Gln Gly Gly Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro
1 5 10 15

Lys Thr Asn Met Lys His Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa
20 25 30

Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro
35 40 45

Ile Ile His Phe Gly Ser Asp Gly Gln Gly Gly Thr His Ser Gln
50 55 60

Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met Ala Gly
65 70 75 80

Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa
85 90 95

Sequence Listing 05986-100M536-US1.txt
Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp Xaa Xaa
100 105 110

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120

<210> 23
<211> 75
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>
<221> MISC_FEATURE
<222> (42)..(51)
<223> Xaa is Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (66)..(75)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 23

Xaa Gly Gln Gly Gly Thr
1 5 10 15

His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His
20 25 30

Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly
35 40 45

Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser
50 55 60

Asp Xaa
65 70 75

<210> 24
<211> 130
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of human prion

Sequence Listing 05986-100M536-US1.txt

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>
<221> MISC_FEATURE
<222> (42)..(106)
<223> Xaa is Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (121)..(130)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 24

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Gly Gly Thr
1 5 10 15

His Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His
20 25 30

Met Ala Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly
35 40 45

Xaa Xaa Xaa Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser
50 55 60

Asp Gly Gln Gly Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys
65 70 75 80

Pro Lys Thr Asn Met Lys His Met Ala Gly Ala Ala Ala Gly Ala
85 90 95

Xaa Xaa Gly Gly Leu Gly Xaa Xaa Xaa Gly Ser Ala Met Ser Arg
100 105 110

Pro Ile Ile His Phe Gly Ser Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
115 120 125

Xaa Xaa
130

<210> 25
<211> 73
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of bovine prion

<220>

Sequence Listing 05986-100M536-US1.txt

<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>
<221> MISC_FEATURE
<222> (50)..(59)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<400> 25

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Pro His Gly Gly
1 5 10 15

Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser
20 25 30

Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Gly
35 40 45

Ala xaa Xaa Gly Gly Leu Gly Xaa Xaa Xaa Gly Ser Ala Met Ser
50 55 60

Arg Pro Leu Ile His Phe Gly Asn Asp
65 70

<210> 26
<211> 136
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of bovine prion

<220>
<221> MISC_FEATURE
<222> (1)..(10)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>
<221> MISC_FEATURE
<222> (50)..(122)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<400> 26

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Pro His Gly Gly
1 5 10 15

Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser
20 25 30

Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Gly
35 40 45

Sequence Listing 05986-100M536-US1.txt

Ala xaa xaa Gly Gly Leu Gly Gly xaa xaa xaa Gly Ser Ala Met Ser
50 55 60

Arg Pro Leu Ile His Phe Gly Asn Asp Gly Gln Pro His Gly Gly Gly
65 70 75 80

Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys
85 90 95

Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala
100 105 110

Xaa Xaa Gly Gly Leu Gly Gly xaa xaa xaa Gly Ser Ala Met Ser Arg
115 120 125

Pro Leu Ile His Phe Gly Asn Asp
130 135

<210> 27

<211> 73

<212> PRT

<213> Artificial

<220>

<223> homolog of fragment of bovine prion

<220>

<221> MISC_FEATURE

<222> (40)..(49)

<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>

<221> MISC_FEATURE

<222> (64)..(73)

<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 27

Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly
1 5 10 15

Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala
20 25 30

Gly Ala Ala Ala Ala Gly Ala xaa xaa Gly Gly Leu Gly Gly xaa xaa
35 40 45

xaa Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe Gly Asn Asp Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

65

70 Sequence Listing 05986-100M536-US1.txt

<210> 28
<211> 136
<212> PRT
<213> Artificial

<220>
<223> homolog of fragment of bovine prion

<220>
<221> MISC_FEATURE
<222> (40)..(112)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (127)..(136)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 28

Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly
1 5 10 15

Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala
20 25 30

Gly Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly Xaa Xaa
35 40 45

Xaa Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe Gly Asn Asp Gly
50 55 60

Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln
65 70 75 80

Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly
85 90 95

Ala Ala Ala Ala Gly Ala Xaa Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa
100 105 110

Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe Gly Asn Asp Xaa Xaa
115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa
130 135

<210> 29
<211> 83
<212> PRT

Sequence Listing 05986-100M536-US1.txt

<213> Artificial

<220>

<223> homolog of fragment of bovine prion

<220>

<221> MISC_FEATURE

<222> (1)..(10)

<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>

<221> MISC_FEATURE

<222> (50)..(59)

<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Ly, Gly, or Ser

<220>

<221> MISC_FEATURE

<222> (74)..(83)

<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 29

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Gln Pro His Gly Gly
1 5 10 15

Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser
20 25 30

Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Gly
35 40 45

Ala Xaa Xaa Gly Gly Leu Gly Xaa Xaa Xaa Gly Ser Ala Met Ser
50 55 60

Arg Pro Leu Ile His Phe Gly Asn Asp Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Xaa Xaa

<210> 30

<211> 136

<212> PRT

<213> Artificial

<220>

<223> homolog of fragment of bovine prion

<220>

<221> MISC_FEATURE

<222> (1)..(10)

<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<220>

<221> MISC_FEATURE

Sequence Listing 05986-100M536-US1.txt

<222> (50)..(122)
<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<220>
<221> MISC_FEATURE
<222> (127)..(136)
<223> Xaa is an optional poly-Lys or poly-Asp segment of 4-10 residues

<400> 30

Xaa Gly Gln Pro His Gly Gly
1 5 10 15

Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys Pro Ser
20 25 30

Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala Ala Gly
35 40 45

Ala Gly Gly Leu Gly Gly Ser Ala Met Ser Arg Pro Leu Ile His
50 55 60

Phe Gly Asn Asp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly
65 70 75 80

Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met
85 90 95

Lys His Val Ala Gly Ala Ala Ala Gly Ala Gly Gly Leu Gly Gly
100 105 110

Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe Gly Asn Asp Xaa Xaa
115 120 125

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
130 135

<210> 31
<211> 199
<212> PRT
<213> Escherichia coli

<400> 31

Phe Val Thr His Leu Asn Arg Asn Lys Thr Pro Ile His Glu Lys Val
1 5 10 15

Phe His Phe Asn Gln Glu Arg Glu Asp Gly Ile Ser Val Glu Val Ala
20 25 30

Met Gln Trp Asn Asp Gly Phe Gln Glu Asn Ile Tyr Cys Phe Thr Asn
35 40 45

Sequence Listing 05986-100M536-US1.txt

Asn Ile Pro Gln Arg Asp Gly Gly Thr His Leu Ala Gly Phe Arg Gly
50 55 60

Ala Leu Thr Arg Thr Leu Asn Asn Tyr Met Asp Lys Glu Gly Phe Ser
65 70 75 80

Lys Lys Ala Gln Ala Ala Thr Ser Gly Asp Asp Ala Arg Glu Gly Leu
85 90 95

Thr Ala Val Val Ser Val Lys Val Pro Asp Pro Lys Phe Ser Ser Gln
100 105 110

Thr Lys Asp Lys Leu Val Ser Ser Glu Val Lys Ser Ala Val Glu Ser
115 120 125

Ala Met Asn Glu Lys Leu Ala Asp Phe Leu Ala Glu Asn Pro Ser Glu
130 135 140

Ala Lys Asn Val Cys Ser Lys Ile Ile Asp Ala Ala Arg Ala Arg Glu
145 150 155 160

Ala Ala Arg Lys Ala Arg Glu Met Thr Arg Arg Lys Gly Ala Leu Asp
165 170 175

Leu Ala Gly Leu Pro Gly Lys Leu Ala Asp Cys Gln Glu Lys Asp Pro
180 185 190

Ala Leu Ser Glu Leu Tyr Ile
195

<210> 32

<211> 10

<212> PRT

<213> Artificial

<220>

<223> homolog of fragment of human or bovine prion

<220>

<221> MISC_FEATURE

<222> (1)..(10)

<223> Xaa is Val, Val, Tyr, Met, Leu, Pro, Asp, Glu, Lys, Gly, or Ser

<400> 32

Xaa Xaa Gly Gly Leu Gly Gly Xaa Xaa Xaa
1 5 10